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The Files

25 November 1958

Conference Report, Contract RD-103, Task Order 3

1. A conference was held on 18 November 1958 in Washington, D.C., with a representative of the [redacted] to discuss the progress on Contract RD-103, Task Order 3. Present at this conference were:



2. This meeting was held primarily to facilitate future planning for the high speed communications system, AS-4A. It has been agreed that the bandwidth of the AS-4A system should be reduced from its present 12.5 kc. Also, there is a requirement for a slow speed redundant teletype capability. The bandwidth can be reduced to 5.5 kc by overlapping the QFM pulses. This provides a 4.2 millisecond multipath protection which is considered more than adequate. The redundant system using a 7-bit Barker code would have a 7.5 kc bandwidth with 2.0 millisecond gap protection. Five options were presented by the [redacted] for providing narrow banding of the AS-4A system and/or the redundant capability. These options are as follows.

- a. narrow bandwidth, complete redundancy via AS-4 components-all terminals
- b. narrow bandwidth, redundancy via AS-5 components-RF terminals
- c. narrow bandwidth, redundancy via Longam components-RF terminals only
- d. narrow bandwidth only
- e. narrow bandwidth, redundancy via AS-4 components-RF terminals only

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Attached are the approximate cost estimates and time schedules for doing this work under each option. The AS-5 option time schedule is unknown. No decision was made during the conference regarding these options. A further study of the various approaches will be made. [redacted] was again advised that the final decision will be dependent upon the outcome of the North Atlantic operational use of the AS-4A system starting in January 1959.

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**Attachments:**

**Cost estimates and time schedules**

OC-E/R+D-EP/PCV:bc (26 November 1958)

cc: /R+D Subject File

Monthly Report

R+D Lab

OC-T

R+D Chrono

EP Chrono

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